


DRAINAGE SUMMARY TABLE

STRUCTURE ID	DESCRIPTION	LENGTH	INVERT IN	INVERT OUT	SLOPE	REMARKS
SWALE #1	GRADE SWALE	186 LF	426.20	422.50	2.00%	PROVIDE EC-2 MATTING
SWALE #2	GRADE SWALE	195 LF	426.20	421.00	VARIES SEE PLAN	PROVIDE EC-2 MATTING
SWALE #3	GRADE SWALE	235 LF	444.00	424.00	VARIES SEE PLAN	PROVIDE EC-2 MATTING
CATCH BASIN #1	VDOT DI-1 DROP INLET	NA	423.10	423.00	NA	PROVIDE HEAVY DUTY CAST IRON FRAME & GRATE; RIM = 425.50
15" RCP	VDOT CLASS III RCP	110 LF	423.00	422.45	0.50%	PROVIDE FLARED END SECTION
MANHOLE #1	VDOT MH-1	NA	416.20	416.10	NA	RIM = 423.50
48" RCP	VDOT CLASS V RCP	107 LF	416.10	±406.68*	8.8%	*+0.10' HIGHER THAN EX. 48" INV.
OUTFALL CONTROL STRUCTURE #1	VDOT SWM-1 DRAINAGE STRUCTURE	NA	±406.68*	406.58	NA	PROVIDE TRASH RACK & ORIFICE
24" RCP	(3) VDOT CLASS III RCP	65 LF	420.75	419.00	2.69%	PROVIDE VDOT EW-6 ENDWALLS, EA. SIDE & FLOWABLE FILL BETW. PIPES

LEGEND

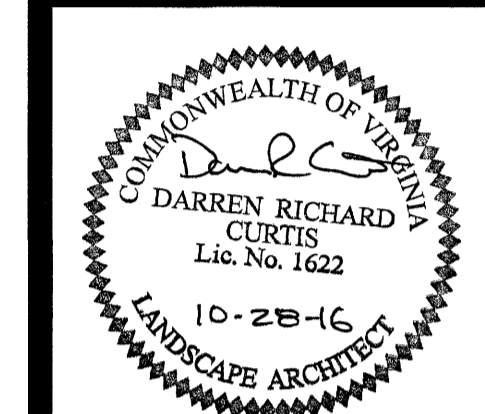
EXISTING:	CONTOURS
--- 420 ---	STORMWATER PIPE

PROPOSED:	CONTOUR
--- 421 ---	SPOT ELEVATION
--- 427.13 ---	STORMWATER PIPE
---	FLOW ARROW
---	RIPRAP
---	FLARED END SECTION
---	SWALE CENTERLINE
---	DRAINAGE DIVIDE
---	SILT FENCE
---	INLET PROTECTION
---	SLOPES ≥ 25%
MH	MANHOLE
EP	EDGE OF PAVEMENT
FG	FINISHED GRADE
CL	CENTERLINE
HP	HIGH POINT
CO	CLEANOUT
TW	TOP OF WALL
TF	TOP OF FOOTING
INV	INVERT



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COUNTY OF ALBEMARLE

**PANTOPS
PUBLIC SAFETY
FACILITY**

IFB # 2017-11223-20

CHARLOTTESVILLE,
VIRGINIA

REVISIONS

DATE	DESCRIPTION

COMMISSION NUMBER	2160310
SCALE:	AS SHOWN
DESIGNED:	DRC
DRAWN:	DRC
CHECKED:	DFB
DATE:	10.28.2016

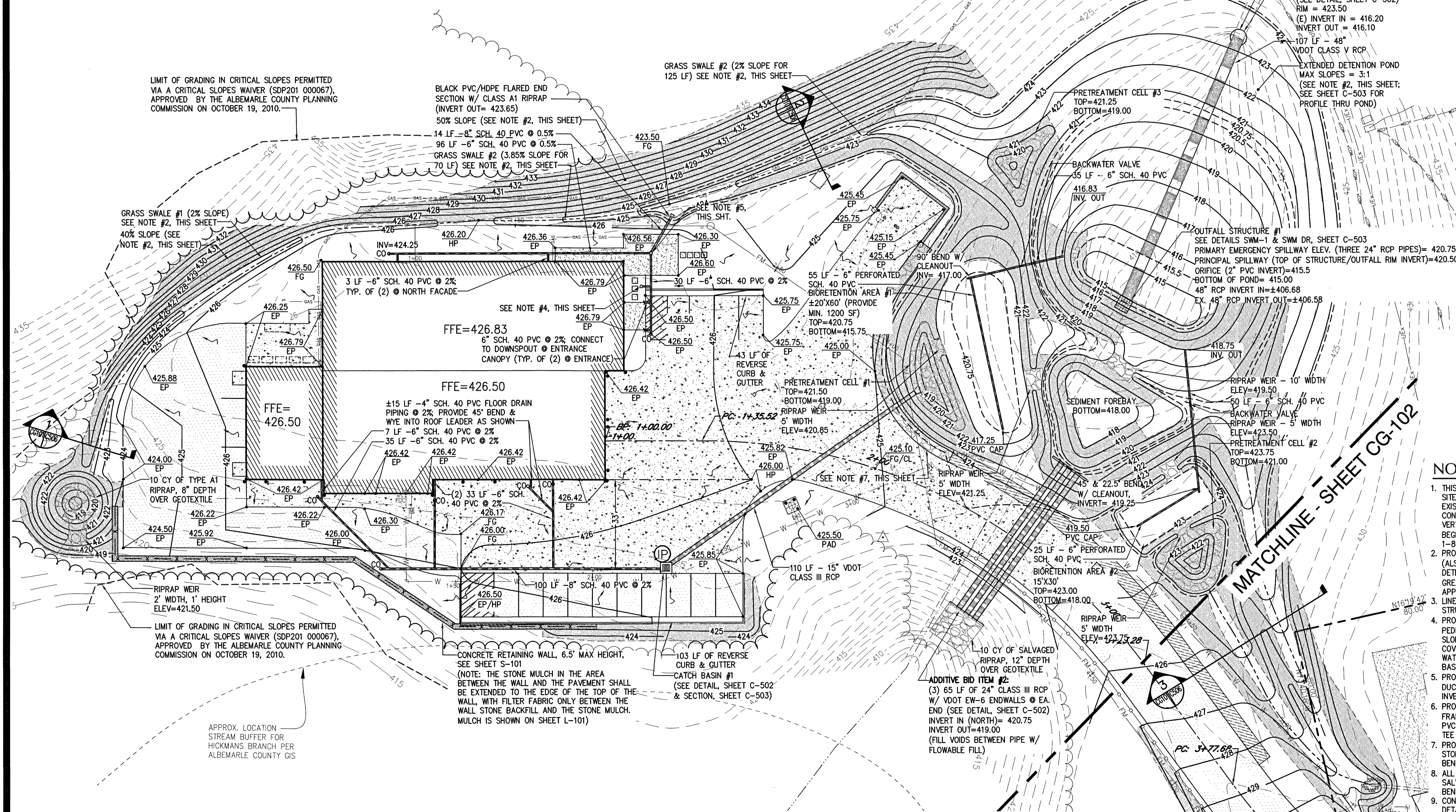
SHEET TITLE

GRADING & STORMWATER PLAN

SHEET NUMBER

CG-101

10 OF 68



- NOTES:
- THIS PLAN MAY NOT SHOW ALL LOCATIONS OF ALL EXISTING UTILITIES ON THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND EXISTENCE OF ALL UTILITIES AND IMPROVEMENTS WITHIN THE LIMITS OF WORK. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO BEGINNING OF WORK. BEFORE BEGINNING OF WORK CONTRACTOR SHALL CALL "MISS UTILITY" AT 1-800-552-7001 TO HAVE ALL UTILITIES LOCATED ON AND NEAR THE SITE.
 - PROVIDE VESCH TREATMENT-1 BIODEGRADABLE SOIL STABILIZATION BLANKETS (ALSO CALLED VDOT EC-2 MATTING) IN ALL SWALES, THE STORMWATER DETENTION POND, THE FOREBAY, & AT DISTURBED OR GRADED SLOPES GREATER THAN 3:1, PER THE VESCH SPEC 3.36 & PER VDOT'S LIST OF APPROVED PRODUCTS.
 - LINEAR FEET OF STORMWATER PIPING IS MEASURED FROM THE CENTER OF STRUCTURES.
 - PROVIDE 12" DIA. NYLOPLAST DRAIN BASIN (OR APPROVED EQUAL), W/ PEDESTRIAN-RATED GRATE (ELEV. 428.40) & ±3 LF OF SCHEDULE 40 PVC SLOPED @ 2% TO ROOF DRAIN LATERAL. TOP SHALL BE FLUSH WITH SOIL & COVERED WITH STONE AS SHOWN ON THE LANDSCAPE PLAN. PROVIDE WATER-TIGHT CONNECTIONS. SLOPE SOIL IN THE STONE AREA TOWARD THE BASIN.
 - PROVIDE 15" DIA. NYLOPLAST DRAIN BASIN (OR APPROVED EQUAL) W/ SOLID DUCTILE IRON FRAME & COVER (RIM ELEV. FLUSH W/ TOP OF PATIO). PIPE INVERT= 423.75.
 - PROVIDE PVC SCHEDULE 40 WYE FITTINGS & CLEANOUTS W/ TRAFFIC RATED FRAMES & COVERS (FLUSH W/ FINISHED GRADE) AT CHANGES IN DIRECTION OF PVC STORM PIPE. ALL STORM PIPE SHALL BE WATER TIGHT. 90° BENDS AND TEE CONNECTIONS ARE NOT PERMITTED.
 - PROVIDE 5' WIDE TYPE A1 RIPRAP GRAVEL DIAPHRAGM, 6" DEPTH. TOP OF STONE SHALL BE FLUSH WITH PAVEMENT. PROVIDE GEOTEXTILE FABRIC BENEATH STONE.
 - ALL RIP-RAP SHALL BE MINIMUM 8" OF VDOT/VESCH TYPE A1 RIPRAP OR SALVAGED RIP-RAP FROM EXISTING CHANNEL. PROVIDE GEOTEXTILE FABRIC BENEATH ALL RIP-RAP.
 - CONNECT ROOF DRAIN PIPING TO DOWNSPOUTS WITH CAST IRON BOOT PER DETAIL #5 ON SHEET A-201.

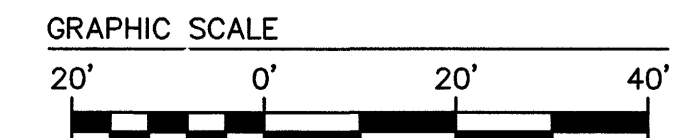
- ALBEMARLE COUNTY STORMWATER NOTES:
- ALL DAMS AND CONSTRUCTED FILL TO BE WITHIN 95% OF MAXIMUM DRY DENSITY AND 2% OF OPTIMUM MOISTURE CONTENT. ALL FILL MATERIALS TO BE APPROVED BY A GEOTECHNICAL ENGINEER. A GEOTECHNICAL ENGINEER IS TO BE PRESENT DURING CONSTRUCTION OF DAMS.
 - PIPE AND RISER JOINTS ARE TO BE WATERTIGHT WITHIN STORMWATER MANAGEMENT FACILITIES.
- BEFORE YOU DIG, CALL MISS UTILITY AT 811 (1-800-552-7001)



GRADING & STORMWATER PLAN

SCALE: 1"=20'

GRAPHIC SCALE



SCALE: 1" = 20'